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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/870,711	06/01/2001	Michael I. Catherwood	18153.0049	1782
23517 7:	590 04/19/2004		EXAM	INER
SWIDLER BERLIN SHEREFF FRIEDMAN, LLP			MALZAHN, DAVID H	
3000 K STREE BOX IP	ET, NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			2124	
			DATE MAILED: 04/19/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
مر امر	09/870,711	CATHERWOOD, MICHAEL I.				
Office Action Summary	Examiner	Art Unit				
	David H. Malzahn	2124				
The MAILING DATE of this communic Period for Reply	cation appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above, the maximum states are all the period for reply is specified above, the maximum states are all the period for reply within the set or extended period for reply Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a reunication.) days, a reply within the statutory minimum of thirt uttory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	d on					
2a) ☐ This action is FINAL. 2						
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-28 is/are pending in the appear to the above claim(s) is/are 5) Claim(s) is/are allowed. 5) Claim(s) 1-28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restrict are subject to restrict are subject to possible to the subject to the subject to the subject to the subject to possible the subject to possible the subject to possible the subject to the subject to possible the subje	e withdrawn from consideration. tion and/or election requirement. Examiner. is/are: a) accepted or b) objection to the drawing(s) be held in abeyan the correction is required if the drawing(ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to	by the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
2. Certified copies of the priority of	documents have been received. documents have been received in A of the priority documents have been nal Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PT 3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date <u>2</u>. 	rO-948) Paper No(s	rummary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The claims call for "detecting" or "a control block operable to detect" when a 32-bit result of the multiplication is a maximally negative result by detecting a "1" and a "0" in the thirtieth and thirty-first bit of the result, respectively, but the specification fails to show that such detection implies a maximally negative result. The claims also call for correction of a maximally negative result by left shifting the result by "1" and inserting a "0" into the least significant bit position followed by two's complementing but the specification fails to show that such processing produces a maximally positive result. It is suggested that applicant provide a numerical example to illustrate applicant's invention. No new matter may be added to the application. What art applicant's representations for a maximally negative fractional number and a maximally positive result, respectively?

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3. Claims 5 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 5 and 19 are inconsistent with Fig. 3 because they call for detecting the values of the thirtieth and thirty-first bits of a thirty-two bit result but Fig. 3 shows detecting the values of the two most significant bits of the result.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on 703-305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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